

ABSTRACT

5 ^{sub 27} A concept-based electronic document viewer system and method for presenting
electronic documents (including emails, voice mails, facsimiles and documents identified
by the results of an Internet web search engine) input from a source of input electronic
documents according to their associated concepts, on a priority directed network
(hierarchical) basis, on a user's electronic display screen. A concept recognizer component
is configured for recognizing concepts and/or themes associated with content of the
documents. A prioritization analyser component is configured for ordering the recognized
concepts and/or themes according to priority. A viewer component is configured for
presenting on the display a plurality of concept identifiers according to a directed network
(hierarchical) configuration based on the priority ordering, wherein each concept identifier
represents a concept or theme recognized by the concept recognizer. Leaf nodes are at
the bottom of the directed network configuration and each leaf node represents one
electronic document. The priority ordering may be according to a user's priorities.
Preferably, an input document processing component is configured for outputting a static
document map corresponding to the input document. The concept recognizer component
preferably comprises a highlighter component configured for identifying key content of the
input document on the basis of the document map. The viewer component may display on
the electronic display a predetermined amount of key content for a document
corresponding to a user-selected leaf node when a cursor operated by a user is positioned
in the area of the leaf node. A concept learner component may be provided for creating
new knowledge pertaining to the user on the basis of data sensed from the system's
environment, for input to a knowledge base of user data.